

Title (en)

RECEPTOR-CATALYST GROWTH PROCESS FOR CARBON NANOTUBES

Title (de)

REZEPTOR-KATALYSATOR-WACHSTUMSVERFAHREN FÜR KOHLENSTOFFNANORÖHRCHEN

Title (fr)

PROCÉDÉ DE CROISSANCE À RÉCEPTEUR-CATALYSEUR POUR DES NANOTUBES DE CARBONE

Publication

EP 2718228 A1 20140416 (EN)

Application

EP 12730308 A 20120612

Priority

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- US 2012042001 W 20120612

Abstract (en)

[origin: US2012315467A1] A method of growing carbon nanomaterials on a substrate wherein the substrate is exposed to an oxidizing gas; a seed material is deposited on the substrate to form a receptor for a catalyst on the surface of said substrate; a catalyst is deposited on the seed material by exposing the receptor on the surface of the substrate to a vapor of the catalyst; and substrate is subjected to chemical vapor deposition in a carbon containing gas to grow carbon nanomaterial on the substrate.

IPC 8 full level

C01B 31/02 (2006.01)

CPC (source: EP US)

B82Y 30/00 (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C01B 32/15** (2017.07 - EP US); **C01B 32/158** (2017.07 - EP US); **Y10S 977/724** (2013.01 - EP US); **Y10S 977/755** (2013.01 - EP US); **Y10S 977/778** (2013.01 - EP US); **Y10S 977/891** (2013.01 - EP US); **Y10T 428/264** (2015.01 - EP US)

Citation (search report)

See references of WO 2012173960A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2012315467 A1 20121213; **US 8895105 B2 20141125**; EP 2718228 A1 20140416; JP 2014523385 A 20140911; WO 2012173960 A1 20121220

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